#### COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

#### TYPE OF DECLARATION

This declaration is of the following type:
(check one applicable item below)
🗵 original.
☐ design.
NOTE: With the exception of a supplemental oath or declaration submitted in a reissue, a supplemental oath or declaration is not treated as an amendment under 37 CFR 1.312 (Amendments after allowand M.P.E.P. § 714.16, 7th Edition.
☐ supplemental.
NOTE: If the declaration is for an International Application being filed as a divisional, continuation continuation-in-part application, do <u>not</u> check next item; check appropriate one of last three items
☐ national stage of PCT.
NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL CONTINUATION OR C-I-P.
NOTE: See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application declaration in the continuation or divisional application being filed on behalf of the same or fewer the inventors named in the prior application.
☐ divisional.
☐ continuation.
NOTE: Where an application discloses and claims subject matter not disclosed in the prior application, or continuation or divisional application names an inventor not named in the prior application continuation-in-part application must be filed under 37 C.F.R. § 1.53(b) (application filing requireme—nonprovisional application).
☐ continuation-in-part (C-I-P).
INVENTABBLID IDENTIFICATION

#### INVENTORSHIP IDENTIFICATION

**WARNING:** If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

#### TITLE OF INVENTION

PROCESS FOR THE PREPARATION OF HYBRID MESOPOROUS MOLECULAR SIEVE SILICAS FROM AMINE SURFACTANTS

(Declaration and Power of Attorney [1-1]—page 1 of 7)

#### SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b), or (c))

(a) 🗵 is attached hereto.
NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;
"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or
"(3) name of inventor(s), and title which was on the specification as filed."
Notice of July 13, 1995 (1177 O.G. 60).
(b) was filed on, as Serial No. 0 /
and was amended on (if applicable).
NOTE: Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.
NOTE: "The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
"(A) application number (consisting of the series code and the serial number, e.g., 08/123,456);
"(B) serial number and filing date;
"(C) attorney docket number which was on the specification as filed;
"(D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or
"(E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."
M.P.E.P. § 601.01(a), 7th Ed.
(c) was described and claimed in PCT International Application No.
amended under PCT Article 19 on (if any).

#### SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))

(complete the following where a supplemental declaration is being submitted)				
☐ I hereby declare that the subject matter of the				
☐ attached amendment				
amendment filed on				
was part of my/our invention and was invented before the filing date of the original application, above-identified, for such invention.				
ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR				
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.				
I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,				
(also check the following items, if desired)				
and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and				
in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.				
PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))				
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).				
I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.				
(complete (d) or (e))				
(d) 🗓 no such applications have been filed.				

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed

priority check item (e), enter the details below and make the priority claim.

(e)  $\square$  such applications have been filed as follows.

(Declaration and Power of Attorney [1-1]-page 3 of 7)

# PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)—(d)

AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)				
COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)		CLAIMED 7 USC 119
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO □
			☐ YES	NO 🗆
CLAIM FOR	R BENEFIT OF PRIOR U. (34 U.S.C.		APPLICA	TION(S)
•	the benefit under Title 35, al application(s) listed below:		§ 119(e) c	of any United

PROVISIONAL APPLICATION NUMBER	FILING DATE
60 / 197,033	4/13/00
/	
/	

### CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. § 120

The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

ALL FOREIGN APPLICATION(S), <i>IF ANY,</i> FI (6 MONTHS FOR DESIGN) PRIOR TO	
NOTE: If the application filed more than 12 months from the filing the basis for this application entering the United States divisional, or continuation-in-part, then also complete A AND POWER OF ATTORNEY FOR DIVISIONAL, CONTRO of the prior U.S. or PCT application(s) under 35 U.S.C.	as (1) the national stage, or (2) a continuation, DDED PAGES TO COMBINED DECLARATION INUATION OR C-I-P APPLICATION for benefit
POWER OF ATTOR	RNEY
I hereby appoint the following practitioner(s) to pro all business in the Patent and Trademark Office con	
(list name and registration	n number)
Ian C. McLeod - Registra	ation No. 20,931
Mary M. Moyne - Registra	ation No. 35,962
(check the following item, it	f applicable)
I hereby appoint the practitioner(s) association vided below to prosecute this application Patent and Trademark Office connected to the practition of the practical	n and to transact all business in the
Attached, as part of this declaration and p of the above-named practitioner(s) to acc representative(s).	
NOTE: "Special care should be taken in continuation or divisic correspondence address in a prior application is reflected. For example, where a copy of the oath or declaration continuation or divisional application filed under 37 CFR from the prior application designates an old correspond in the continuation or divisional application, the change prosecution of the prior application. Applicant is required address in the continuation or divisional application to example to the current correspondence address. 37 CFR	ed in the continuation or divisional application. from the prior application is submitted for a 1.53(b) and the copy of the oath or declaration dence address, the Office may not recognize, of correspondence address made during the red to identify the change of correspondence insure that communications from the Office are
SEND CORRESPONDENCE TO	DIRECT TELEPHONE CALLS TO:
Ian C. McLeod	(Name and telephone number)
Address McLeod & Moyne, P.C. 2190 Commons Parkway	
Okemos, Michigan 488	54
∑ Customer Number21036	
Zi Customer NumberZ_U_JU	<del></del>

Since this filing is a  $\square$  continuation  $\square$  divisional there is attached hereto a Change of Correspondence Address so that there will be no question as to where the PTO should direct all correspondence.

(complete the following if applicable)

(Declaration and Power of Attorney [1-1]-page 5 of 7)

#### **DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

#### SIGNATURE(S)

- NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.
- NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).
- NOTE: Inventors may execute separate declarations/oaths provided <u>each</u> declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the executing inventor. 62 Fed. Reg. 53,131, 53,142, October 10, 1997,

#### Full name of sole or first inventor

THOMAS	/ J.		PINNAVAIA	
(GIVEN NAME)	(MIDDLE INT)IAL OR	NAME)	FAMILY (OR LAST NAM	AE)
Inventor's signature _	Mamas & James	avaea		
Date January 18,	2001 Country of Cit	tizenship	United States	
Residence	East Lansing,	Michigan		
Post Office Address _	5901 Sleepy Ho	ollow		
	East Lansing,	Michigan	48823	

#### Full name of second joint inventor, if any

THOMAS	R.	PAULY
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature	MA	
Date	Country of Citizenship	United States
Residence	Lansing, Michigan	
Post Office Address	1503 Sunnyside Avenue	
	Lansing, Michigan 48	910

#### Full name of third joint inventor, if any

SEONG-SU		KIM
(GIVEN NAME)	(MIDDICE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature	185	
Date 1-18-0/	Country of Citizenship _	South Korea
Residence	Lansing, Michigan	
Post Office Address	4905 Dunckel #303	
	Lansing, Michigan 4	8910

## (check proper box(es) for any of the following added page(s) that form a part of this declaration)

	Signature for fourth and subsequent joint inventors. Number of pages added
	* * *
	<b>Signature</b> by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. <i>Number of pages added</i>
	* * *
	<b>Signature</b> for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. <i>Number of pages added</i>
	* * *
	Added page for <b>signature</b> by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)
	* * *
	Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
	□ Number of pages added
	* * *
	Authorization of practitioner(s) to accept and follow instructions from representative.
	* * *
i	(if no further pages form a part of this Declaration, then end this Declaration with this page and check the following item)
	Y This declaration ends with this page.

(Declaration and Power of Attorney [1-1]-page 7 of 7)

J-; 0,

Prac	titio	ner's Docket No. MSU 4.1-456	PATENT
Œ	Appli	Thomas J. Pinnavaia, Thomas R. Pauly icant Seong-Su Kim	and
		ication No.   Patent No	
	Filed	<del></del>	
Title		PROCESS FOR THE PREPARATION OF MESOPOROUS	MOLECULAR
	SI	IEVE SILICAS FROM AMINE SURFACTANTS STATEMENT CLAIMING SMALL ENTITY STATUS	
		(37 CFR 1.9(f) and 1.27(d))—NONPROFIT ORGANIZATIO	N
		state that I am an official empowered to act on behalf of the nonprofit below:	t organization
		Nonprofit Organization <u>MICHIGAN STATE UNIVERSIT</u>	
Addre	ess o	f Nonprofit Organization <u>238 Administration Build</u>	ing
		East Lansing, Michigan	48824
TYP	E OF	NONPROFIT ORGANIZATION	
	X	University or Other Institution of Higher Education	
		Tax Exempt Under Internal Revenue Service Code (26 USC 501(a)	and 501(c)(3))
		Nonprofit Scientific or Educational Under Statute of State of the Union of America	Jnited States
		(Name of State	)
		(Citation of Statute	)
		Would Qualify as Tax Exempt Under Internal Revenue Service C 501(a) and 501(c)(3)), if Located in the United States of America	ode (26 USC
		Would Qualify as Nonprofit Scientific or Educational Under Statut the United States of America if Located in the United States of America	
		(Name of State	)
		(Citation of Statute	)
orgar State	nizations S Pat	y state that the nonprofit organization identified above qualifies a on, as defined in 37 CFR 1.9(e), for purposes of paying reduced fees tent and Trademark Office under Sections 41(a) and (b) of Title 35, the tegard to the invention described in	to the United
	X	the specification filed herewith, with title as listed above.	
		the application identified above.	
		the patent identified above.	

(Small Entity-Non-Profit [7-3]-page 1 of 3)

I hereby state that rights under contract or law have been conveyed to, and remain with, the nonprofit organization, with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 C.F.R. 1.9(c), if that person made the invention, or by any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e)

\*NOTE: Separate statements are required from each named person, concern or organization having rights to the invention as to their status as small entities. (37 CFR 1.27).

Each such person, concern or organization having any rights in the invention is listed below:

	<b>23</b>	No such person, concern, or organization exists.  Each such person, concern or organization is listed below.						
Name	Name							
Addre	Address							
				· · · · · · · · · · · · · · · · · · ·				
	INDI	/IDUAL		SMALL BUSINESS CONCERN		NONPROFIT ORGANIZATION		
Name								
Address								
	INDI	VIDUAL		SMALL BUSINESS CONCERN		NONPROFIT ORGANIZATION		

I acknowledge the duty to file, in this application or patent, notification of any charge in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

#### (check the following item, if desired)

NOTE: The following verification statement need not be made in accordance with the rules published on Oct. 10, 1997, 62 Fed. Reg. 52,131, effective Dec. 1, 1997.

NOTE: "The presentation to the Office (whether by signing, filing, submitting, or later advocating) of any paper by a party, whether a practitioner or non-practitioner, constitutes a certification under § 10.18(b) of this chapter. Violations of § 10.18(b)(2) of this chapter by a party, whether a practitioner or non-practitioner, may result in the imposition of sanctions under § 10.18(c) of this chapter. Any practitioner violating § 10.18(b) may also be subject to disciplinary action. See §§ 10.18(d) and 10.23(c)(15)." 37 C.F.R. § 1.4(d)(2).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Title in Organization  Address of Person Signing	NORMAN M. POLLACK, Ph.D. ASSISTANT VICE PRESIDENT FOR INTELLECTUAL PROPERTY MICHIGAN STATE UNIVERSITY 238 ADMINISTRATION BUILDING
	EAST LANSING, MI 48824-1046
SIGNATURE Marill	Date 1/10/01

(Small Entity-Non-Profit [7-3]-page 3 of 3)